

Calibration Curve Fits ~~From Day 217~~

Table 6 -

Order

~~Order~~
~~Calculated~~
~~Mass~~
~~Error~~
~~Error~~
~~Calculated~~
~~Mass~~

LINEAR

R^2

ΔM %
Linear

%

Error

β
 R^2

ΔM %

β
 R^2

ΔM %

β
 R^2

ΔM %

Mass

0

50

100

150

250

300

400

500

-0.0565

-0.05678

-0.0291

-0.00796

-

0.0085, 0.0169, -0.0189, -0.02374, -0.00992, -0.01983

0.08094, 0.08094, 0.03464, 0.03464, 0.03887, 0.03887

0.06131, 0.04087, 0.02055, 0.01370, 0.02411, 0.01607

-0.07136, -0.02854, -0.05959, -0.02384, -0.06077, -0.02431

-0.09595, 0.03198, -0.05831, 0.01944, -0.06161, -0.02054

0.07829, 0.01957, 0.02531, -0.03133, 0.02151, 0.03038

-0.00502, -0.00100, 0.04756, -0.00951, -0.04412, -0.00882

Δ^2

Δ^2

5.636⁻⁴

3.932⁻⁴

1.199⁻³

1.511⁻³

1.877⁻⁴

2.582⁻⁴

5.683⁻⁴

5.909⁻⁴

3.779⁻⁴

4.218⁻⁴

9.816⁻⁴

9.229⁻⁴

9.044⁻⁵

7.779⁻⁵

$\Sigma 3.968^{-3}$

$\Sigma 4.176^{-3}$

$\Sigma 0.238, 0.062996$

$\sqrt{E}, 0.0646, 0.0244$

Coefficients

~~$A_0, A_1, A_2, A_3, A_4, A_5$~~

Curve Order
1st
2nd
3rd
4th
5th

Curve

Order

A_0

A_1

A_2

A_3

A_4

A_5

~~1st~~

~~2nd~~

2nd

~~3rd~~

3rd

~~4th~~

4th

5th

-680.622, 55.3633, 150.790

-619.382, -25.8604, 186.502, -5.02546

-629.091, -11.0189, 178.282, -3.25681, -0.163544

-371.619, -291.605, 160.361, 125.669, -55.8359, 7.33, 240

3

Linear

A

B